BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 1		Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications and site engineer in incharge							
Measurements taken on		03-01-2022, 7-01-2022							
		Footing							
		C1	Cum	6	2	2	1.50	36.00	
		SSM Excavation							
		Long wall	Cum	2	6.05	0.75	0.60	5.45	
			Cum	1	8.72	0.75	0.60	3.92	
			Cum	1	7.06	0.75	0.60	3.18	
		Short Wall	Cum	2	3.22	0.75	0.60	2.90	
			Cum	1	3.47	0.75	0.60	1.56	
			Cum	6	0.84	0.75	0.60	2.27	
			Cum	6	0.86	0.75	0.60	2.32	
		Retaining wall	Cum	1	2.50	1.00	2.50	6.25	
		Compound wall							
		Longer wall	Cum	1	18.90	0.5	0.85	8.03	
		Short wall	Cum	1	0.70	0.5	0.85	0.30	
		For sump	Cum	1	2.42	2.5	2.25	13.61	
							Total Executed Quantity	**85.76**	
							Qty Carried to Summary	**85.76**	

C&F Plan Approved

Asst. Executive Engi
Project Divisio
Yelahanka Z.O
BBMP, Bangalo

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 2		Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications and site engineer in incharge							
Measurements taken on		07-01-2022 , 13-01-2022							
		C1	Cum	6	2	2	0.1	2.40	
		Compound wall							
		Longer wall	Cum	1	18.9	0.5	0.1	0.95	
		Short wall	Cum	1	0.70	0.5	0.1	0.04	
							Total Executed Quantity	**3.38**	
							Qty Carried to Summary	**3.38**	

CONTRACTOR ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGI

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 3		Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and site engineer in incharge							
Measurements taken on		11-02-2022 , 14-02-2022							
		Footings							
		C1	Cum	6	2	2	0.15	3.60	
		SSM below							
		Long wall	Cum	2	9.15	0.75	0.15	2.06	
			Cum	1	8.72	0.75	0.15	0.98	
			Cum	1	7.06	0.75	0.15	0.79	
		Short Wall	Cum	2	4.62	0.75	0.15	1.04	
			Cum	1	4.17	0.75	0.15	0.47	
			Cum	6	0.84	0.75	0.15	0.57	
			Cum	6	0.85	0.75	0.15	0.57	
		Retaining wall	Cum	1	2.5	1.00	0.15	0.38	
		Compound wall							
		Longer wall	Cum	1	18.9	0.5	0.15	1.42	
		Short wall	Cum	1	0.7	0.5	0.15	0.05	
		For sump	Cum	1	2.42	2.5	0.10	0.61	
							Total Executed Quantity	**12.53**	
							Qty Carried to Summary	**12.53**	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEE

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 4		Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and site engineer in incharge							
Measurements taken on		21-02-2022 24-02-2022							
		Above SSM							
		Long wall	Cum	2	9.15	0.45	0.15	1.24	
			Cum	1	8.72	0.45	0.15	0.59	
			Cum	1	7.06	0.45	0.15	0.48	
		Short Wall	Cum	2	4.62	0.45	0.15	0.62	
			Cum	1	4.17	0.45	0.15	0.28	
			Cum	6	0.84	0.45	0.15	0.34	
			Cum	6	0.85	0.45	0.15	0.34	
		Compound wall							
		Longer wall	Cum	1	18.9	0.5	0.15	1.42	
		Short wall	Cum	1	0.7	0.5	0.15	0.05	
		Below Steps	Cum	1	4.80	0.9	0.15	0.65	
		Below Tiles	Cum	1	10.00	2.4	0.15	3.60	
		Deduction							
		Step Area	Cum	-1	4.80	0.95	0.15	-0.68	
		Triangular area	Cum	-1	6.25		0.15	-0.94	
					Triangular area=0.5*10*1.25=6.25				
							Total Executed Quantity	**7.99**	
							Qty Carried to Summary	**7.99**	

9.61

ACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 5		Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specifications and site engineer in incharge							
Measurements taken on		28-12-2022 02-03-2023							
		SSM Footing							
		Below GL							
		Longer wall	Cum	2	9.15	0.45	0.45	3.71	
			Cum	1	8.72	0.45	0.45	1.77	
			Cum	1	7.06	0.45	0.45	1.43	
		Short Wall	Cum	2	4.62	0.45	0.45	1.87	
			Cum	1	4.17	0.45	0.45	0.84	
			Cum	6	0.84	0.45	0.45	1.02	
			Cum	6	0.85	0.45	0.45	1.03	
		Longer wall							
		Long wall	Cum	1	18.9	0.50	0.6	5.67	
		short wall	Cum	1	0.70	0.50	0.6	0.21	
							Total Executed Quantity	**17.55**	
							Qty Carried to Summary	**17.55**	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEE

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 6		Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications and site engineer in incharge							
Measurements taken on		03-03-2022							
		Filling Available of							
		Earth Work Excavation	Cum					85.76	
		PCC for Footing	Cum					-12.53	
		SSM Footing	Cum					-17.55	
		Column Footings	Cum					-12.41	
							Total Executed Quantity	**43.27**	
							Qty Carried to Summary	**43.27**	

CONTRACTOR

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 7		Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge							
Measurements taken on		05-03-2022							
		Excavated Earth	Cum					85.76	
		Filling Available of Excavated Earth						-43.27	
							Total Executed Quantity	42.49	
							Qty Carried to Summary	42.49	

NTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 10		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaiton and site engineer in incharge							
Measurements taken on		5-03-2022							
		Footings							
		C1	Sqm	6	8		0.5	24.00	
		Column up to plinth beam	Sqm	6	1.2		0.75	5.40	
		For sump							
		Bottom slab	Sqm	1	9.84		0.15	1.48	
		Sump walls	Sqm	4	2.42		2.15	20.81	
			Sqm	4	2.20		2.15	18.92	
							Total Executed Quantity	70.61	
							Qty Carried to Summary	70.61	

CONTRACTOR ASSISTANT ENGINEER ASSISTANT EXECUTIVE EN

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 11		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons and site engineer in incharge							
Measurements taken on		10-03-2022							
		Plinth Beam							
		Longer span	Sqm	4	10.05		0.45	18.09	
		Shorter Span	Sqm	6	4.82		0.45	13.01	
							Total Executed Quantity	**31.10**	
							Qty Carried to Summary	**31.10**	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE E

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 12		Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton and site engineer in incharge							
Measurements taken on		14-03-2022							
		Column Shuttering							
		Column	Sqm	6	1.2		3.05	21.96	
							Total Executed Quantity	**21.96**	
							Qty Carried to Summary	**21.96**	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 13		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons and site engineer in incharge							
Measurements taken on		18-03-2022							
		Lintels							
		Through lintels							
		Longer span	Sqm	4	9.15		0.15	5.49	
		Shorter Span	Sqm	4	4.82		0.15	2.89	
			Sqm	2	3.32		0.15	1.00	
		Lintels over partition wall							
			Sqm	2	8.72		0.15	2.616	
			Sqm	6	4.3		0.15	3.87	
		BEAMS							
		Longer Span	Sqm	4	12		0.3	14.4	
		Shorter Span	Sqm	6	4.82		0.3	8.68	
			Sqm	1	1.6	0.2		0.32	
							Total Executed Quantity	39.26	
							Qty Carried to Summary	39.26	

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 14		Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications and site engineer in							
Measurements taken on		02-05-2022							
		Edges of slab							
		Roof Slab	Sqm	1	38.38		0.15	5.76	
							Total Executed Quantity	5.76	
							Qty Carried to Summary	5.76	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 15		KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2, Pg No 17, Item No 4.38							
Measurements taken on		03-05-2022							
		Steps							
		Step 1	Sqm	1	6.7		0.15	1.01	
		Step 2	Sqm	1	6.12		0.15	0.92	
		Step 3	Sqm	1	5.56		0.15	0.83	
							Total Executed Quantity	2.76	
							Qty Carried to Summary	2.76	

CONTRACTOR

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ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 16		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs and site engineer in incharge							
Measurements taken on		02-05-2022							
		Roof Slab	Sqm	1	12	7.19		86.28	
		Cover slab	Sqm	1	2.42	2.5		6.05	
							Total Executed Quantity	92.33	
							Qty Carried to Summary	92.33	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No. 17		Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregetes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications and site engineer in incharge							
Measurements taken on		21-03-2022,05-04-2022							
		Footings							
		C1	Cum	6	2	2	0.5	12.00	
		Column up to plinth beam	Cum	6	0.3	0.3	0.75	0.41	
		Plinth Beam							
		Longer span	Cum	2	10.05	0.2	0.45	1.81	
		Shorter Span	Cum	3	4.82	0.2	0.45	1.30	
		For sump							
		Bottom slab	Cum	1	2.42	2.50	0.15	0.91	
		Sump walls	Cum	2	2.42	0.15	2.15	1.56	
			Cum	2	2.20	0.15	2.15	1.42	
		Cover slab	Cum	1	2.42	2.50	0.15	0.91	
		Retaining Wall	Cum	1	2.50	0.25	2.50	1.56	
							Total Executed Quantity	**21.87**	
							Qty Carried to Summary	**21.87**	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

PREMEASUREMENT SHEET

First and Part Bill

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.21		Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2							
Measurements taken on		07-03-2022, 24-03-2022							
		Sump	Tonne		From Steel calculation sheet			0.60	
		Isolated Footing	Tonne		From Steel calculation sheet			0.95	
		Column upto ground floor beam bottom	Tonne		From Steel calculation sheet			0.42	
		Plinth Beam	Tonne		From Steel calculation sheet			0.55	
		Ground Floor Roof Beam	Tonne		From Steel calculation sheet			0.70	
		Ground Floor Roof Slab	Tonne		From Steel calculation sheet			1.90	
		Lintel Beam	Tonne		From Steel calculation sheet			0.24	
		Retaining wall	Tonne		From Steel calculation sheet			0.25	
					Total Executed Quantity			**5.60**	
					Qty Carried to Summary			**5.60**	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGI

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

Description — **Steel calculation sheet**

PREMEASUREMENT SHEET

FIRST AND PART BILL

Chainage From	Chainage To	Description	Nos	BAR DIA	No. Bars	Total No. bars	L	Crank length (42d)	Actual Length	Total Length	Weight	Total weight
				mm			m	m	m	m	kg/m	Kg's
Item No. 21		**Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2**										
Measurements taken on		07-03-2022 , 21-03-2022										
		Sump										
		Cover slab	1									
		12 # @ 130c/c main bars alt.		16	13	14.00	2.42	0.00	2.42	33.88	1.58	53.47
		12 # @ 130c/c main bars alt.		16	13	14.00	2.42	2.69	5.11	71.51	1.58	112.87
		12 # @ 130c/c main bars alt.		16	14	14.00	2.50	0.00	2.50	35.00	1.58	55.24
		12 # @ 130c/c main bars alt.		12	18	18.00	2.50	2.02	4.52	81.29	0.89	72.17
		10# Diagonal bars		12	5	5.00	2.00	0.00	2.00	10.00	0.89	8.88
		Side wall 1	2									
		12 # @ 130c/c on outer face		12	20	40.00	2.15	0.00	2.15	86.00	0.89	76.35
		10# @200c/c Dist. Bars		10	15	31.00	2.42	0.00	2.42	75.02	0.62	46.25
		Side wall 2	2									
		12 # @ 130c/c on outer face		12	20	41.00	2.15	0.00	2.15	88.15	0.89	78.26
		10# @200c/c Dist. Bars		10	15	31.00	2.50	0.00	2.50	77.50	0.62	47.78
		Bottom slab	1									
		12# @ 130c/c on outer face		12	20	20.00	2.50	0.00	2.50	50.00	0.89	44.39
		12# @ 130c/c on outer face		12	18	0.00	2.42	0.00	2.42	0.00	0.89	0.00
											Sub total	**595.67**
		Isolated Footing C										
		Bars Along Long Direction	6	20	16	96	2	0	2.00	192.00	2.46615	473.50
		Bars Along Short Direction	6	20	16	96	2	0	2.00	192.00	2.46615	473.50
											Sub Total	**947.00**

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

Description: Steel calculation sheet

PREMEASUREMENT SHEET

FIRST AND PART BILL

Chainage From	Chainage To	Description	Nos	BAR DIA	No. Bars	Total No. bars	L	Crank length (42d)	Actual Length	Total Length	Weight	Total weight
				mm			m	m	m	m	kg/m	Kg's
		Columns										
		Columns upto Ground floor beam bottom										
		C	6	20	4	24	5.90	0.00	5.90	141.60	2.46615	349.21
		Rectangle Rings @ 250 c/c	6	8	25	150	1.20	0.00	1.20	180.00	0.394584	71.03
											Sub Total	**420.23**
		Plinth Beam										
		PB										
		PB b/w A-B along 1-2-3	3									
		top bars		16	2	6	6.4	0.00	6.40	38.40	1.578336	60.61
		bottom bars		25	2	6	5.5	0.00	5.50	33.00	3.85336	127.16
		2L-#8mm @150 c/c stirrups		8	38	114	1.3	0.00	1.30	148.20	0.394584	58.48
		PB										
		PB b/w 1-3 along A-B	2									
		top bars		16	2	4	11.2	0.00	11.20	44.80	1.578336	70.71
		bottom bars		25	2	4	10.3	0.00	10.30	41.20	3.85336	158.76
		2L-#8mm @150 c/c stirrups		8	70	140	1.3	0.00	1.30	182.00	0.394584	71.81
											Sub Total	**547.53**
		Ground Floor Roof Beam										
		B1(200X450)	2									
		Along grid A-B between 1 & 3										
		top bars		16	2	4	11.20	0.00	11.20	44.80	1.578336	70.71
		Top bars extra		25	2	4	3.00	0.00	3.00	12.00	3.85336	46.24
		bottom bars		25	2	4	10.30	0.00	10.30	41.20	3.85336	158.76
		bottom extra bars	2	20	2	8	3.35	0.00	3.35	26.80	2.46615	66.09
		2LGD 8# stirrups @ 120C/C		8	87	174	1.30	0.00	1.30	226.20	0.394584	89.25

431.05

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NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

Description | **Steel calculation sheet**

PREMEASUREMENT SHEET

FIRST AND PART BILL

Chainage From	Chainage To	Description	Nos	BAR DIA	No. Bars	Total No. bars	L	Crank length (42d)	Actual Length	Total Length	Weight	Total weight
				mm			m	m	m	m	kg/m	Kg's
		B2(200X450)										431.05
		Along grid 1-3 between A&B	3									
		top bars		16	2	6	6.40	0.00	6.40	38.40	1.578336	60.61
		bottom bars		25	2	6	5.50	0.00	5.50	33.00	3.85336	127.16
		2LGD 8# stirrups @ 100C/C		8	50	150	1.30	0.00	1.30	195.00	0.394584	76.94
											Sub Total	**695.77**
		Ground Floor Roof Slab										
		SLAB between grid 1-2 and A-B										
		12# @130c/c main bars alt	1	12	29	29	6.00	0.00	6.00	172.15	0.887814	152.84
		12# @130 c/c crank bars alt	1	12	29	29	6.00	2.02	8.02	230.00	0.887814	204.20
		12 @130 c/c main bars alt	1	12	24	24	7.20	0.00	7.20	173.35	0.887814	153.91
		12# @130 c/c crank bars alt	1	12	24	24	7.20	2.02	9.22	221.89	0.887814	197.00
		12# @ 260C/C EXTRA at top	1	12	29	29	2.15	0.00	2.15	61.69	0.887814	54.77
		12# @ 260 C/C EXTRA at top	1	12	29	29	1.50	0.00	1.50	43.04	0.887814	38.21
		12# @ 260 C/C EXTRA at top	2	12	24	48	2.15	0.00	2.15	103.53	0.887814	91.92
		SLAB between grid 2-3 and A-B										
		12# @130c/c main bars alt	1	12	29	29	6.00	0.00	6.00	172.15	0.887814	152.84
		12# @130 c/c crank bars alt	1	12	29	29	6.00	2.02	8.02	230.00	0.887814	204.20
		12 @130 c/c main bars alt	1	12	24	24	7.20	0.00	7.20	173.35	0.887814	153.91
		12# @130 c/c crank bars alt	1	12	24	24	7.20	2.02	9.22	221.89	0.887814	197.00
		12# @ 260 C/C EXTRA at top	1	12	29	29	1.50	0.00	1.50	43.04	0.887814	38.21
		12# @ 260C/C EXTRA at top	2	12	29	57	2.15	0.00	2.15	123.38	0.887814	109.54
		SLAB between near grid A-B-1										
		10# @270 c/c Distribution bars	2	10	5	11	7.20	0.00	7.20	75.73	0.616538	46.69

1795.24

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NAME OF THE WORK: CONSTRUCTION AND IMPROVEMENTS OF TOILETS IN WARD NO.7 BYATARAYANAPURA

Description | **Steel calculation sheet**

PREMEASUREMENT SHEET

FIRST AND PART BILL

Chainage From	Chainage To	Description	Nos	BAR DIA	No. Bars	Total No. bars	L	Crank length (42d)	Actual Length	Total Length	Weight	Total weight
				mm			m	m	m	m	kg/m	Kg's
		SLAB between near grid 1-2-3										
		20# @270 c/c Distribution bars	2	10	5	11	12.00	0.00	12.00	126.22	0.616538	77.82
		Diagonal bars										
		12# @130 c/c diagonal bars	4	12	3	12	2.50	0.00	2.50	30.00	0.887814	26.63
											Sub Total	**1899.67**
		Lintel beam										
		Lintels over main wall										
		Along Long span	2									
		Top Bars		12	2	4	10.35	0.00	10.35	41.40	0.887814	36.76
		Bottom bars		10	2	4	10.05	0.00	10.05	40.20	0.616538	24.78
		2 LGD 8# @150c/c		8	102	203	0.70	0.00	0.70	142.10	0.394584	56.07
		Along Short span	2									
		Top Bars		12	2	4	5.12	0.00	5.12	20.48	0.887814	18.18
		Bottom bars		10	2	4	4.82	0.00	4.82	19.28	0.616538	11.89
		2 LGD 8# @150c/c		8	33	66	0.70	0.00	0.70	46.39	0.394584	18.30
		Along Short span	1									
		Top Bars		12	2	2	3.62	0.00	3.62	7.24	0.887814	6.43
		Bottom bars		10	2	2	3.32	0.00	3.32	6.64	0.616538	4.09
		2 LGD 8# @150c/c		8	23	2	0.70	0.00	0.70	1.40	0.394584	0.55
		Lintels over partition wall	1									
		Top Bars		12	2	2	9.02	0.00	9.02	18.04	0.887814	16.02
		Bottom bars		10	2	2	8.72	0.00	8.72	17.44	0.616538	10.75
		2 LGD 8# @150c/c		8	59	59	0.70	0.00	0.70	41.39	0.394584	16.33
		Lintels over partition wal	1									
		Top Bars		12	2	2	4.60	0.00	4.60	9.20	0.887814	8.17
		Bottom bars		10	2	2	4.30	0.00	4.30	8.60	0.616538	5.30
		2 LGD 8# @150c/c		8	30	30	0.70	0.00	0.70	20.77	0.394584	8.19
											Sub Total	241.82
		Retaining wall										
		10# @100c/c main bars alt	2	10	26	52	2.65	0.00	2.65	137.80	0.616538	84.96
		10# @100 c/c distribution bars	2	10	28	55	2.50	0.00	2.50	137.50	0.616538	84.77
		Bottom Concrete										
		10# @100c/c main bars alt	1	10	26	52	1.00	0.00	1.00	52.00	0.616538	32.06
		10# @100 c/c distribution bars	1	10	11	22	2.50	1.00	3.50	77.00	0.616538	47.47
											Sub Total	249.27
											Total Steel Quantity in Kg	**5596.96**
											Total Steel Quantity in tonne	**5.60**

CF 1795.24

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